



Attorney Docket No. 24122/1
Applicant: James M. Dennison
Application No.: 10/821,495
Sheet 1/11



FIG. 1

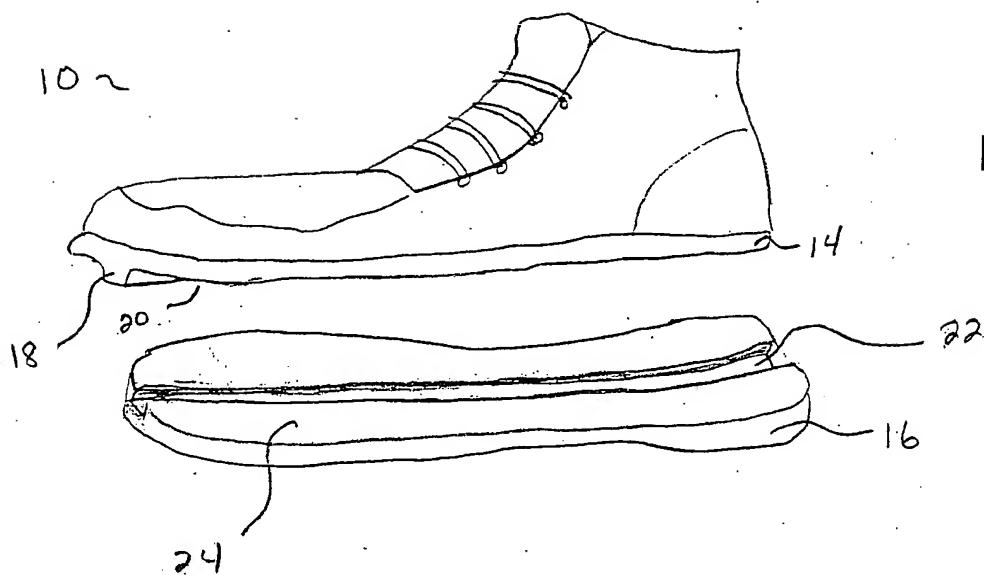


FIG. 2

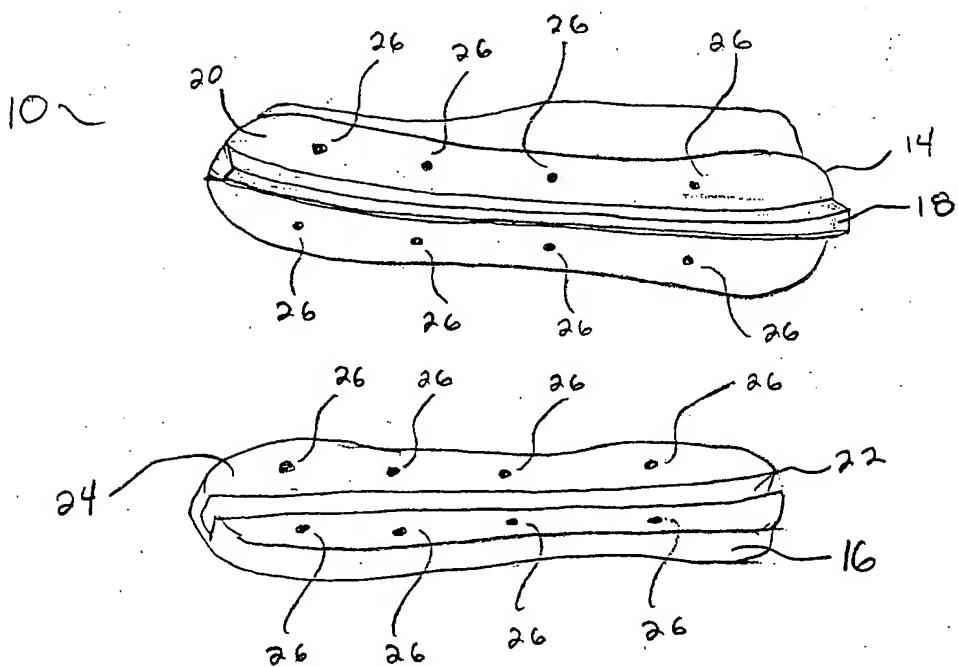


FIG. 3

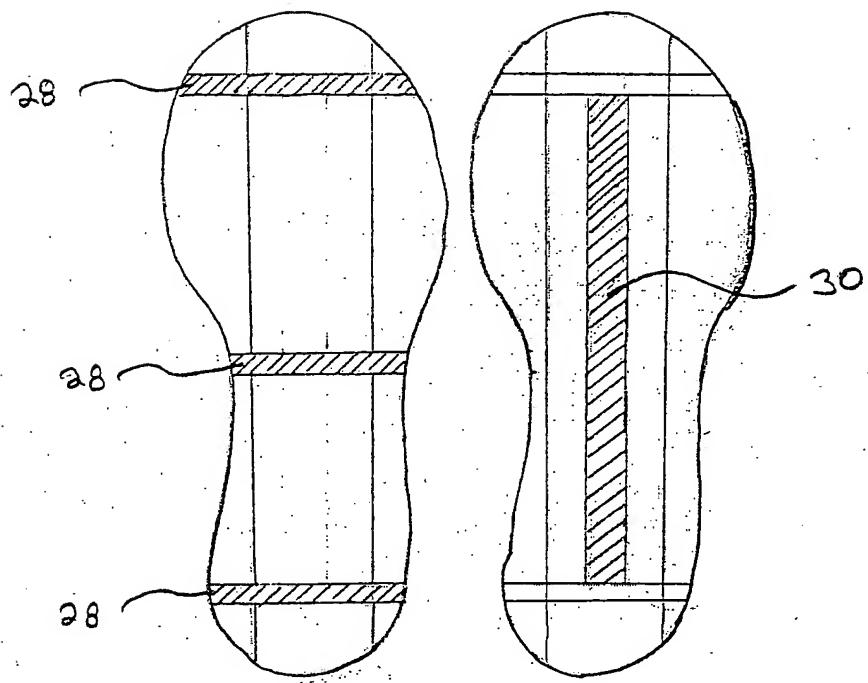
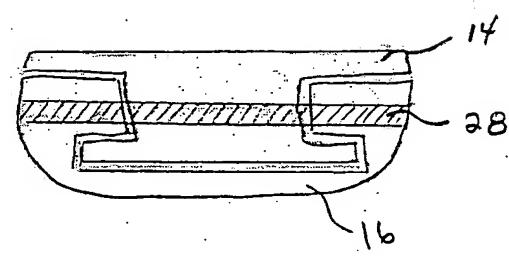
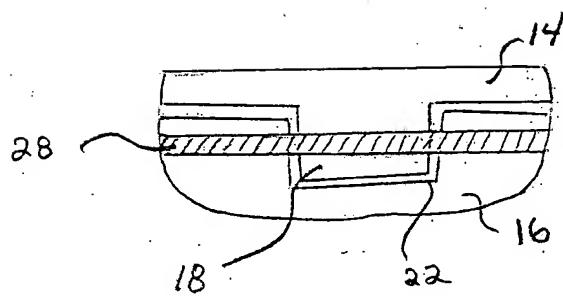


FIG. 4

FIG. 5



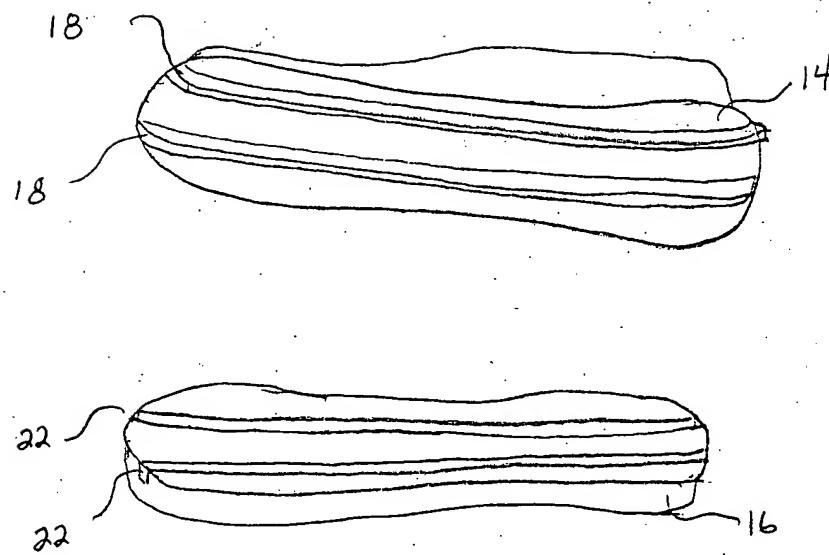


FIG. 8

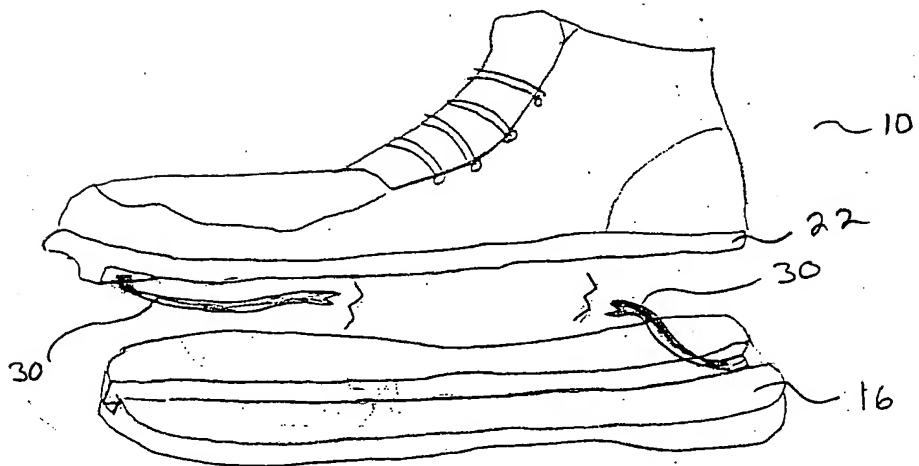


FIG. 10

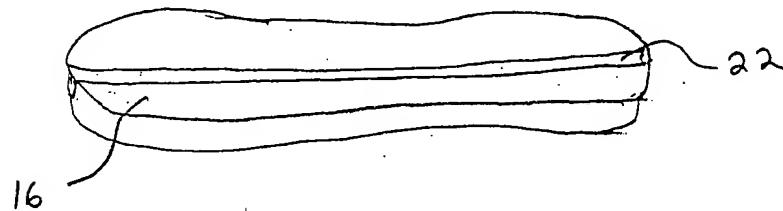
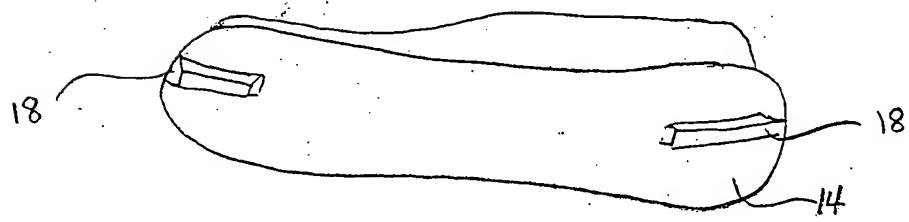
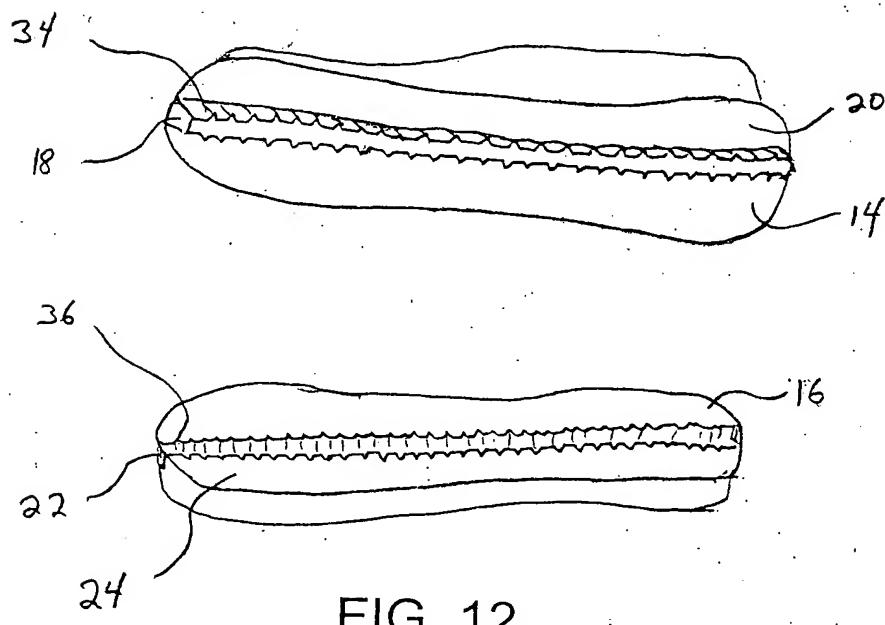
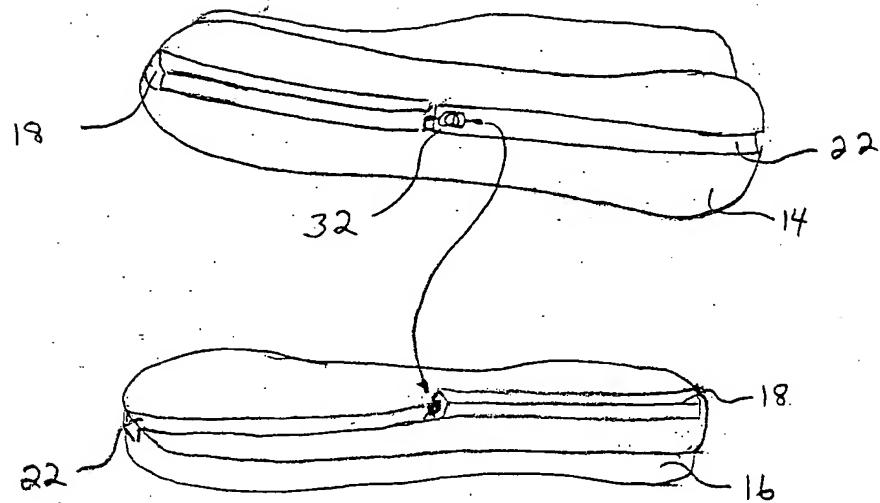


FIG. 9



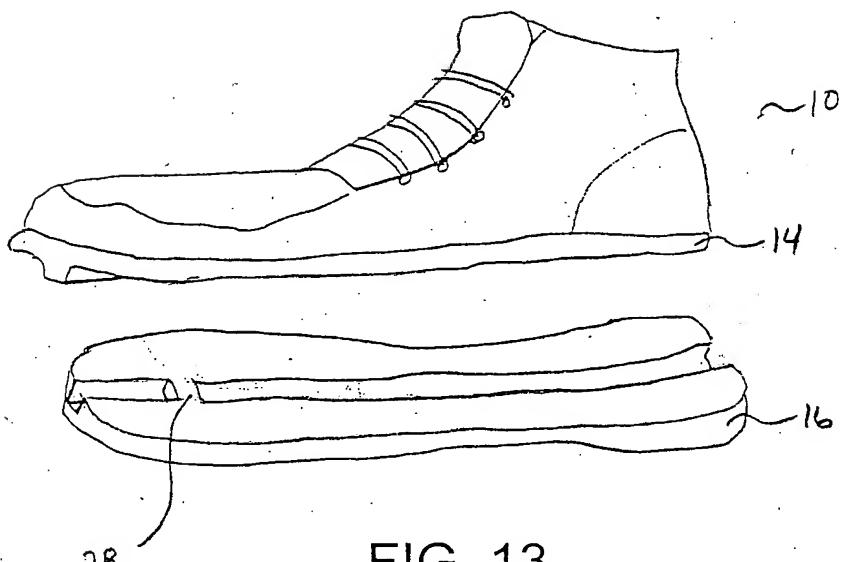


FIG. 13

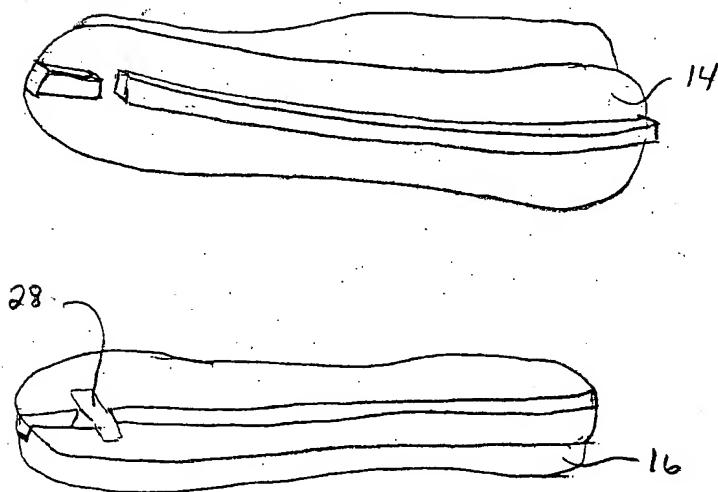


FIG. 14

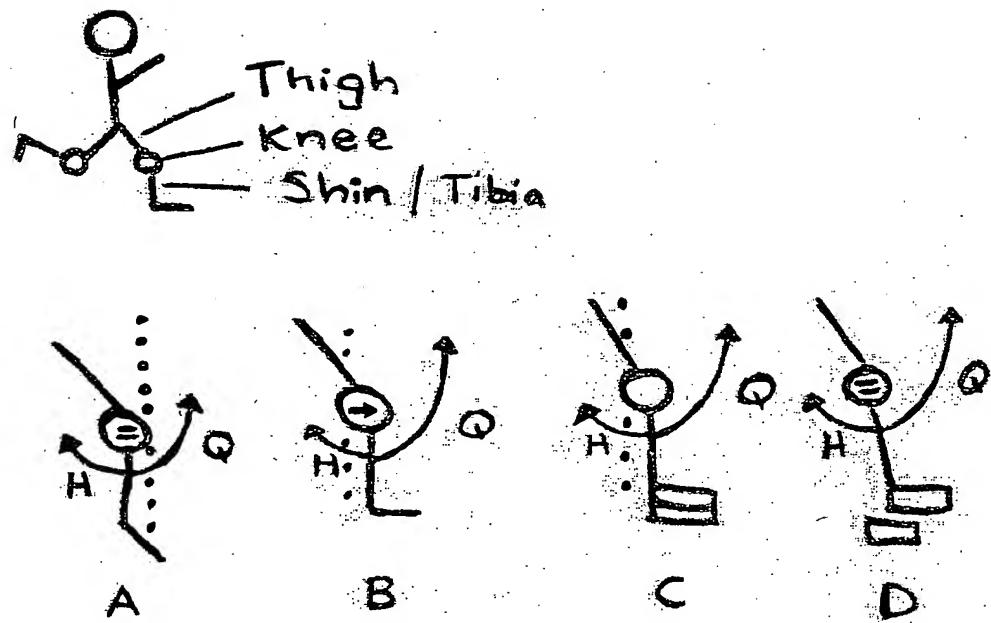


FIG. 15

	Quadraceps	Hamstrings	Center of Gravity of Body	Translation Force on Tibia	Foot	Knee
Normal Stopping	Normal firing/contraction	Normal firing/contraction	In front of knee	Equal Quad/Ham contraction - no ant./post-force	Fixed on Floor	No Injury
Noncontact ACL Injury	Maximal firing/contraction	Normal firing/contraction	Behind knee	Unbalanced Quad/Ham contraction; leads to anterior force	Fixed on Floor	ACL tears
Injury Preventing Shoe Sole	Maximal firing/contraction	Normal firing/contraction	Behind Knee	Unbalanced Quad/Ham contraction; no ant./post. Force since foot not fixed	Releases allowing leg to extend	No ACL injury

FIG. 16

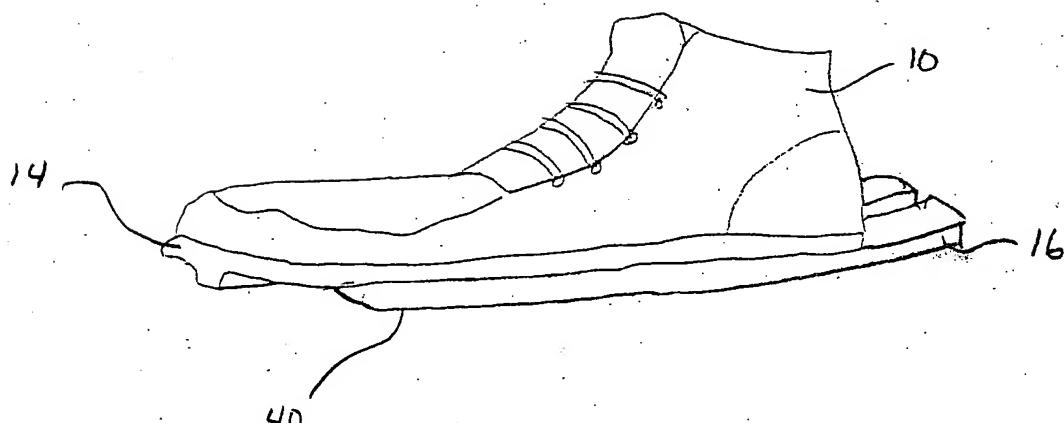


FIG. 17